

# Industrial Premium Efficiency AC Motor

This high-performance electric motor is designed for industrial applications requiring premium efficiency. It features robust construction and an optimized cooling system for continuous operation under demanding loads.



## Product Overview

### Industrial Premium Efficiency AC Motor

This industrial-grade AC motor is engineered for high performance in demanding applications, offering premium efficiency ratings that meet strict NEMA standards. Featuring a robust cast iron construction and IP55 TEFC enclosure, it ensures reliability and longevity in harsh environments. Designed for versatility, it supports bi-directional rotation and offers multiple mounting and design options to fit various mechanical loads.

## Key Performance Metrics

### Operating Performance

**1.15**

Service Factor

**40 °C**

Ambient Temperature

**3300 Feet**

Rated Altitude

## Electrical Specifications

### Electrical Parameters

Feature	Detail
Phases	3 Phase
Frequency	60 Hz
Voltage Options	208-230/460V, 460V, 575V
Insulation Class	Class F
Temperature Rise	Class B

## Construction & Design

### Frame Sizes

- 143T - 447T (1045 Carbon Steel Shaft)
- 449T - 586/7T(UZ) (Alloy Steel Shaft)

### Design Standards

TEFC (IP55), NEMA Design B, Cast Iron Frame, Bi-directional Rotation, VPI Varnished

## Protection & Compliance

### Efficiency Certifications

NEMA MG1 Table 12-12 • NEMA MG1 Table 12-11